



Svom FS ground segment  
**2022 Key point #3**  
**Project manager's  
latest devs and  
development plan**  
september 14<sup>th</sup> 2022



# Latest developments

## NIGHT-TIME TESTS

- "DC3-GRB"
  - The DC3-GRB simulation corresponds to the **complete VHF GRB scenario** and **two of the X-Band passes** from the GRB simulation of the June 2022 data challenge.
  - All OBS\_IDs, PASS\_IDs, BURST\_IDs, packet and trigger times, etc. are changed every time the simulation is performed.
  - The VHF stream covers the four Svom instruments. However, the X-Band data do not contain raw ECLAIRs packets. For this instrument, the lowest data level simulated is L1.
  - The first X-Band pass contains only core program data, and the second one both general program and core program data.
  - Executed on **Tuesdays, Thursdays** and **Sundays** at **~00:00 UTC**



# Latest developments

## NIGHT-TIME TESTS

- "XVHF-ECL":
  - The X-VHF simulation is composed of **two X-Band passes of ECLAIRs raw data and associated ECLAIRs VHF packets**, as simulated by a copy of the ECLAIRs onboard software.
  - PDPU GRB packets were added to the VHF sequence to simulate the PDPU response to ECLAIRs slew requests.
  - Even though the slew is never actually performed, the PDPU response allows for the testing, among other things, of the notices pipeline behaviour:
    - 1st burst: slew refused several times, then accepted.
    - 2nd burst: slew never requested
    - 3rd burst: slew always refused
  - Executed on **Mondays, Wednesdays and Fridays** at **~00:00 UTC**



# Latest developments

## NIGHT-TIME TESTS

- "DC3-TOOMM":
  - The DC3-TOOMM simulation reenacts the **VHF TOO-MM scenario** from the June 2022 data challenge.
  - All OBS\_IDs, PASS\_IDs, BURST\_IDs, packet and trigger times, etc. are changed every time the simulation is performed.
  - The 6h-simulation corresponds to the observation 10 tiles, with a burst detection in tile number 10
  - Executed on **Saturdays** at **~00:00 UTC**



# Latest developments

## NIGHT-TIME TESTS INSPECTOR

- On Slack & Mattermost:
  - Every day a summary of the test analysis is sent at 8:00 AM
  - It shows only :
    - The number of pipelines complete found in the orchestrator DB after the test
    - The number of products found in SDB after the test
    - The list of pipelines for which the result is not as expected (failed process, improper number of output products, etc.)
    - The pipelines that are successful and/or were not run due to lack of input are not shown in the message
- On the webpage <https://fsc.svom.org/inspector/>
  - All data retrieved by the inspector service is shown here
  - You can click on most tests results to have some more details on what the inspector found in the various databases



# Latest developments

## NIGHT-TIME TESTS INSPECTOR

- Keep in mind that the inspector inspects **ONLY** the system as it was between ~11:00PM and 8:00AM, meaning that all re-processing or product upload during the day will **NOT** be taken into account
- The chosen colors on the webpage seem intuitive to me, but if you have any question please contact me directly



# Development plan

UNTIL THE END OF THE YEAR

- Orchestrator update
  - New target (cf. tomorrow's technical sessions) → **Due date 01/11/2022**
  - Handling of program in webUI and/or service itself → **Due date 01/12/2022**
- VHF packets definition update
  - If that the definitions are available mid-october as planned → **Due date 31/10/2022**
  - Update of the night-time simulation data → **Due date 01/11/2022**



# Development plan

## TO THE END OF THE YEAR AND BEYOND

- General documentation portal :
  - General webpage for Svom/FSC documentation, hosted on fsc.svom.[org|eu] with public explications and FSC website guide, and role-enforced authentication for some sections (technical informations for example)
  - First version should gather and update various documentations available in all other platforms, and describe the FSC website → **Due date 15/12/2022**
  - Then it will have to be corrected/updated by all of you for the parts that are related to your work → **Due date 01/06/2023**
- Quality gate in Sonarqube :
  - New Sonarqube « Phase E » quality gate, matching CNES requirements for exploitation phase → **Due date 15/10/2022**
  - **All software will have to be validated against this quality gate 1 week before each KP of 2023**
  - **Starting in June 2023, services that do not pass the Phase E quality gate will not be deployed in production**